# SilverPower

## SP-S650 650W

***Features:***

- Super high efficiency for energy savings, up to 85% efficiency, 80 Plus Bronze approval.
- 3% line regulation for 3.3V/5V/+12V rail for maximum stability, security and performance.
- Dynamic Load on +12V to ensure maximum compatibility with mainboards and perhperials.
- High reliability Aluminum Electrolytic capacitors for increased product life and reliability.
- Active Power Factor Correctin [99% PF] for reduced line noise and power distortion.
- Advanced Dual Forward Converter circuit design for added reliability and efficiency.
- Smart and Silent Fan Control [S2FC], one of the best performance noise controller available on the market.
- 12cm double ball, ball bearing fan for increased airflow and lifetime and reduced noise levels.
- 12cm ball bearing fan mounted on soft rubber cushions to reduce fan vibration and rotation noises.
- Ultra ventilation [Honey Comb Structure] for increased airflow and reduced noise levels.
- 4x PCI-Express connectors to support high end graphics cards.
- All in One DC Cabling to support PC, IPC, workstations, servers and dual CPU systems.
- Patented Easy Swap peripheral connectors for easy plug and unplug connection.
- Total Protection with Over Voltage, Over Power and Short Circuit Protection.
- Universal AC Input for plug and run anywhere around the world.
- >100,000 hours MTBF, excluding fan.
- RoHS compliant.
- PFC Harmonics compliant, EN61000-3-2: 2000
- Safety approvals:  TUV, Semko, CB & CE
- Meet Erp requirement

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| Logistic Data | |
|---|---|
| Article number | 13532 |
| Article name | SP-S650 650 W |
| EAN barcode | 4250078133087 |
| Mark (EAR registration number) | EAR888-62976468 |
| Packing unit | 4 pcs. |
| Net weight per piece | 2.50 kg |
| Gross weight per piece | 2.80 kg |
| Gross weight per carton | 11.80 kg |
| Dimensions net (W x D x H) | 150 x 159 x 86 mm |
| Dimensions gross (W x D x H) | 192 x 300 x 133 mm |
| Dimensions gross per carton | 550 x 220 x 330 mm |
| Accessory | 1 x Power cord<br>4 x Chassis screws<br>1 x User manual |
| Safety | TÜV, Semko, CB & CE |
| Colour | Black |
| Customs tariff number | 85044030 |
| Land of Origin | PR China |

| Voltage table | | | | | |
|---|---|---|---|---|---|
| **Model** | **SP-S650 650 Watt** | | | | |
| AC Input | 110-240V~ 9-4.5A 50-60Hz | | | | |
| DC Output | +3.3 V | +5 V | +12 V | -12 V | +5 $V_{SB}$ |
| Max. Amps | 25 A | 25 A | 53 A | 0.5 A | 3 A |
| Max. comb. power | 150 W | | 636 W | 6 W | 15 W |
| Total power | 650 W | | | | |

| Cable configuration | | |
|---|---|---|
| **Model** | **Fixed cable** | **SP-S650 650 Watt** |
| M/B (20 + 4P) | 1 | 550 mm |
| ATX12V (4+4P) | 1 | 630 mm |
| PCI-E (6+2P) | 2 | 550 + 100 mm |
| EPS12V (8P) | 1 | 550 mm |
| PCI-E (6+2P) | 2 | 550 + 100 mm |
| 4 SATA (5P) | 2 | 350 + 100 + 100 + 100 mm |
| 2 SATA (5P) | 2 | 260 + 100 mm |
| 3 Molex (4P) | 1 | 400 + 100 + 100 mm |
| 2 Molex (4P) + 1 FDD | 1 | 280 + 100 + 100 mm |

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